

FIG. 1A

gggcaggaagacggcgctgcccggaggagc	-153
ggggcgggcgggcggcggggggagcggcggcggggagccaggccggcggggggggggggggggggggggggggcag	-77
aagaggcggcggggccggctccggccggctgcggcgttggccttgcttgccggcggcgggtggagaag	-1
ATG CTG CAG TCC CTG GCC GGC AGC TCG TGC GTG CGC CTG GTG GAG CGG CAC CGC [TCG] M L Q S L A G S S C V R L V E R H R S	57 19
GCC TGG TGC TTC GGC TTC CTG GTG CTG GGC TAC TTG CTC TAC CTG GTC TTC GGC GCA A W C F G F L V L G Y L L Y L V F G A	114 38
GTG GTC TTC TCC TCG GTG GAG CTG CCC TAT GAG GAC CTG CTG CGC CAG GAG CTG CGC V V F S S V E L P Y E D L L R Q E L R	171 57
AAG CTG AAG CGA CGC TTC TTG GAG GAG CAC GAG TGC CTG TCT GAG CAG CAG CTG GAG K L K R R F L E E H E C L S E Q Q L E	228 76
CAG TTC CTG GGC CGG GTG CTG GAG GCC AGC AAC TAC GGC GTG TCG GTG CTC AGC AAC Q F L G R V L E A S N Y G V S V L S N	285 95
GCC TCG GGC AAC TGG AAC TGG GAC TTC ACC TCC GCG CTC TTC TTC GCC AGC ACC GTG A S G N W N W D F T S A L F F A S T V	342 114
CTC TCC ACC ACA GGT TAT GGC CAC ACC GTG CCC TTG TCA GAT [GGA GGT AAG GCC TTC L S T T G Y G H T V P L S D G G K A F	399 133
TGC ATC ATC TAC TCC GTC ATT GGC ATT CCC TTC ACC CTC CTG TTC CTG ACG GCT GTG C I I Y S V I G I P F T L L F L T A V	456 152
GTC CAG CGC ATC ACC GTG CAC GTC ACC CGC AGG CCG GTC CTC TAC TTC CAC ATC CGC V Q R I T V H V T R R P V L Y F H I R	513 171
TGG GGC TTC TCC AAG CAG GTG GTG GCC ATC GTC CAT GCC GTG CTC CTT GGG TTT GTC W G F S K Q V V A I V H A V L L G F V	570 190
ACT GTG TCC TGC TTC TTC ATC CCG GCC GCT GTC TTC TCA GTC CTG GAG GAT GAC T V S C F F F I P A A V F S V L E D D	627 209

FIG. 1B-1

TGG AAC TTC CTG GAA TCC TTT TAT TTT TGT TTT ATT TCC CTG AGC ACC ATT GGC CTG W N F L E S F Y F C F I S L S T I G L	684 228
GGG GAT TAT GTG CCT GGG GAA GGC TAC AAT CAA AAA TTC AGA GAG CTC TAT AAG ATT G D Y V P G E G Y N Q K F R E L Y K I	741 247
GGG ATC ACG TGT TAC CTG CTA CTT GGC CTT ATT GCC ATG TTG GTA GTT CTG GAA ACC G I T C Y L L G L I A M L V V L E T	798 266
TTC TGT GAA CTC CAT GAG CTG AAA AAA TTC AGA AAA ATG TTC TAT GTG AAG AAG GAC F C E L H E L K K F R K M F Y V K K D	855 285
AAG GAC GAG GAT CAG GTG CAC ATC ATA GAG CAT GAC CAA CTG TCC TTC TCC TCG ATC K D E D Q V H I I E H D Q L S F S S I	912 304
ACA GAC CAG GCA GCT GGC ATG AAA GAG GAC CAG AAG CAA AAT GAG CCT TTT GTG GCC T D Q A A G M K E D Q K Q N E P F V A	969 323
ACC CAG TCA TCT GCC TGC GTG GAT GGC CCT GCA AAC CAT TGA gcgtaggattgttgcatt T Q S S A C V D G P A N H *	1030 337
atgctagagcaccagggtcagggtcaaggaaagaggcttaagtatgttcattttatcagaatgcaaaagcgaaaa ttatgtactttaagaaaatagctactgtttcaatgtcttataaaaaacaaaaaaaaagacacatggacaaaag aagctgtgaccccgaggatgtctaataatgtgaggaaatgagatgtccacctaaattcatatgtgacaaaatta tctcgaccttacataggaggagaatacttgaagcagtatgctgtggtagaagcagatttatactttact ggaaacttgggtttgcatttagatcatttagtgcattgtatggctaaatagcaaaatttatatttagaagcaaaaaaaa aaagcatagagatgttttataaataggtttatgtgtactggttgcattgtacccacccaaaatgatttttt gagaatctaagtcaaactcactattataatgcattgtacccacccaaaatgattttttatgtatataatgtt tatattctgtacatatgttttaggtcaccagatcctagtgtagttctgaaactaagactatagatattttgtttct tttgcattttttataactaaagaatccagagtgcattgtacccacccaaaatgattttttatgtatataatgtt	1106 1182 1258 1334 1410 1486 1562 1638 1712

FIG. 1B-2

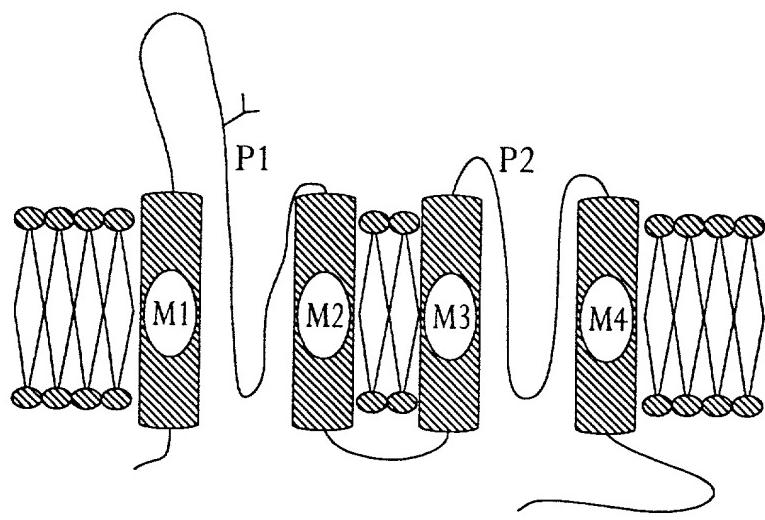
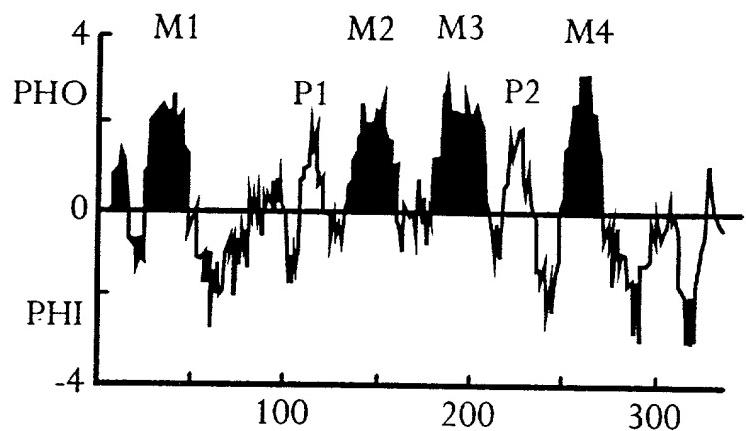


FIG. 1C

DRAFT - DO NOT CITE

TWIK-1 P1
 TWIK-1 P2
 TOK1 P2
 TOK1 P1
 Slo
 Shaker
 Shab
 Shal
 Shaw
 KAT1
 AKT1
 eag
 ROMK1
 IRK1
 GIRK1

	1	14	27
TWIK-1 P1	ETSALEFAASTVILSTTGYGHTVPLS	DGG	
TWIK-1 P2	ELESFYECFESTSTGLGDYVPGE	GYN	
TOK1 P2	YFNCFIYFCFCLLTGYGDYAPRTGAS		
TOK1 P1	YGNALYECTVSSLTVGLGDIPKSMGA		
Slo	YWTCVYFLIVTMSTVGYGDVYCETVLG		
Shaker	IPDAFWMAAVTMTTVGYGDMTPVGFWG		
Shab	IPPEAFWWAGITMTTVGYGDTICPTTALG		
Shal	IPAAFWYTIVTMITLGYGDMVPETIAG		
Shaw	IPICLIVWAIVTMTTVGYGDMAPKTYIG		
KAT1	YVTALYWSITTLLTGYYGDFHAENPRE		
AKT1	YVTSMYWSITTLLTVGYGDIHPVNTKE		
eag	YVTALYHEEMTCMTSVGEGNVAAEIDNE		
ROMK1	MTSAFLFSLETQVTEGYGFRFVTEQCA		
IRK1	ETAAFLFSIETQTTIGYGFRCTVDECP		
GIRK1	EPSAFLFFIETEATEGYGYRITDKCP		

FIG. 2A

TWIK-1	1	M LQSELAGSSCVR E-----R HREAWCF--GE -----I VLGY
f17c8	1	M YTDEGEYSGTDHG GSTM QKMSPNTRQNFRQNVVVV C ISAAITL -----
M110-2	1	M TVSMEENS K IOMESATS KDK VATPDRSLLNKY H LGPLAHTGIVLSC
TWIK-1	31	LEYLMFGAVVFS S VELPYEDLIR OE-----L RKLIKRRFLEEHEC ---L
f17c8	47	L VENLIGAGIE F-----Y LAETONSSSES
M110-2	49	VTYALGGAYEFLSIEHP -E EILKRREKAIREFQDILK O QFMGNITSGIEN
TWIK-1	71	SEQQEEOFLGR VL-----E ASNYGVSVLSNASGNWNW --D FTSSALF
f17c8	69	LNENSEW --SKCLHNLP IGGKITAEMKS KL GCKITKSSRIDGEGKA IF
M110-2	96	SEQSEEYTK EL MLEDAHNAHA E YFFLNRE I PKDMW --T FSSALV
P1		
TWIK-1	110	FASTVESTTG Y GHTVPE SDGGKA FC TI-Y SVIGIPFTL EN TAVVORI
f17c8	115	FSWTLYSTVG Y GS LP PHSELGRY LTIF-Y SLLMIPV FE AFFKEFGT FL
M110-2	142	FTTTTVIPVG Y GYI E PVSAYGR -M CILAYA LLGI PLT LV TMADTGKFA
TWIK-1	157	TVH ---V TRRPV L-----Y EHERWGE SKOV VATV H AVL LG EV TV SCFF
f17c8	162	A HFLVVVSNRTRL A VKKAYK IS-QN PENAETPSNS L HDY FL SSI
M110-2	189	AQL ---V TR -----W E GDNNA MP A AI TV -----C LL
P2		
TWIK-1	197	FI -P AAVFS ---V L ---E DDWNFLES F YFCF I SE STIGE D YV P GEGYN
f17c8	209	LC CSE SLSS SA LF SI EN ISY LSSVY FG E TM FL I GIGD E VPTN ---
M110-2	213	FAYP EW GF ---I LC STS N I TY LDSV YF SL T SE FTIG FGD ITP ---
TWIK-1	239	Q KFRE E YK G TCY LE GL TA ME V VI E FC ---E EHE L KK ER
f17c8	254	-----E WFSGYCM L FL ISDV L SNO IFY FCQARV R YFFH I LARK IL
M110-2	253	-----D MNV D H MV LE LA VG V IL Y T IL D VA ---A E M I D R V H Y M G R H V
TWIK-1	278	-----K MFY V KKD D E D O V H I E H D O -----S F S S I T D O A G M K E D
f17c8	295	L LR E-E DDG G Q LET E V S O H I P I N S Q C M P S L -----V D C E K E I D N D
M110-2	294	K AK E LAG K M F Q L A Q S I N M K Q G L V S G V G Q L H A L A R F G M I V G R E V D K Q
TWIK-1	315	Q K Q NE P F V A -----Q \$ S A C V G P A N H ---
f17c8	338	E K L I S S L E F -----
M110-2	342	E D G I A F S P D V M D G L E F M D T L S I Y S R R S R S A E N S A N L F L S

FIG. 2B

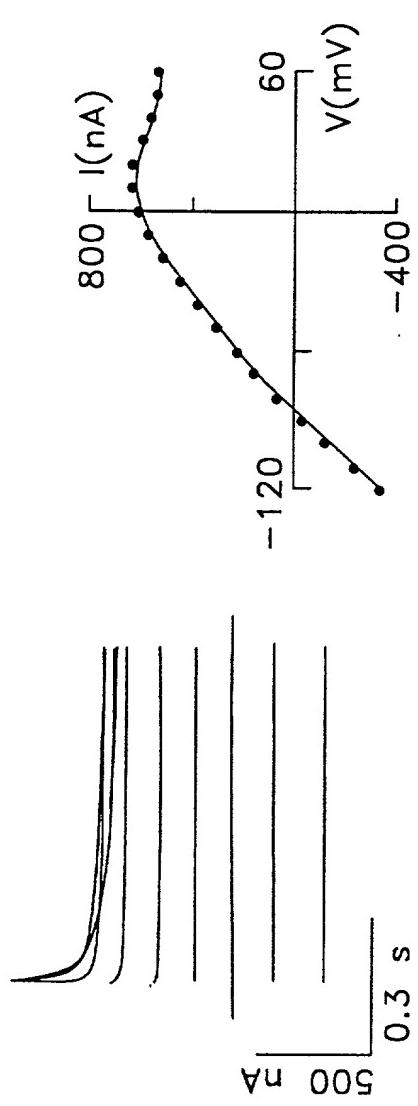


FIG. 3A

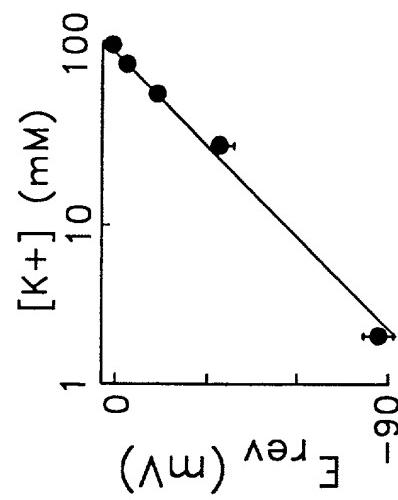


FIG. 3B

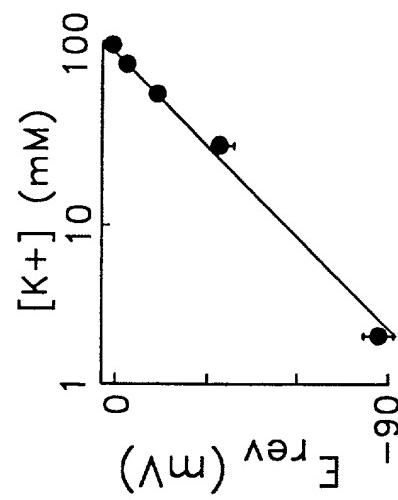


FIG. 3C

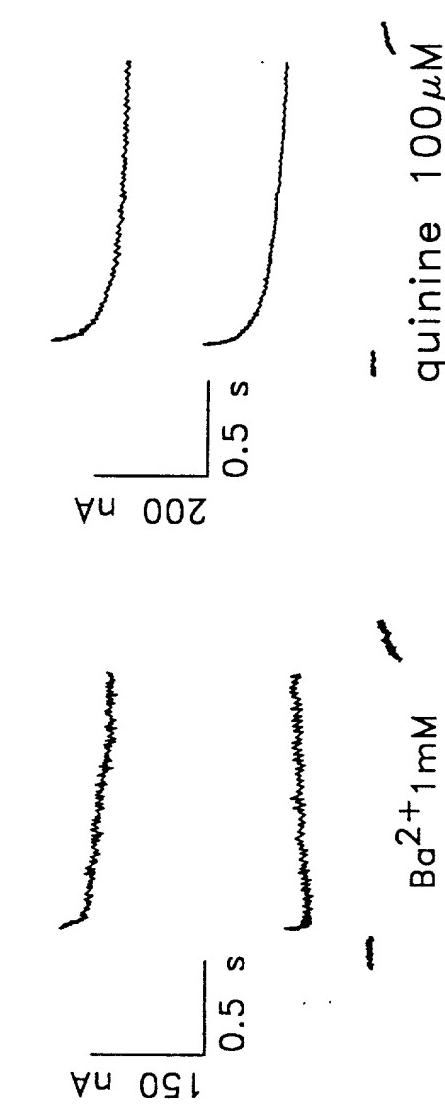


FIG. 3D

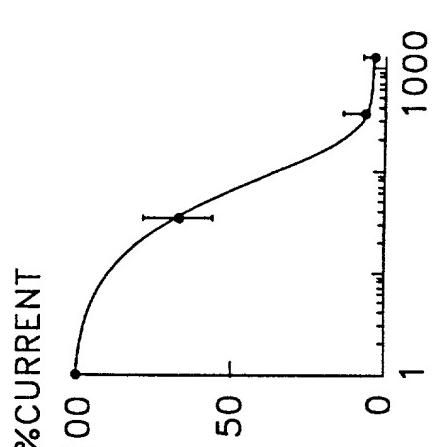


FIG. 3E

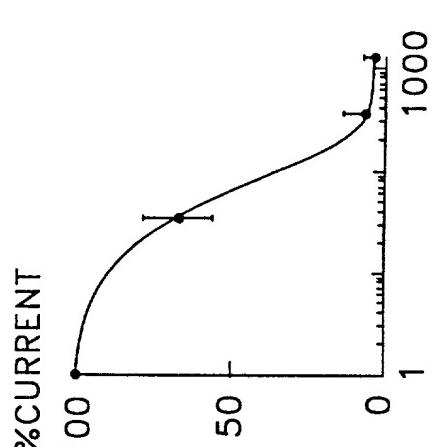


FIG. 3F

FIG. 4A

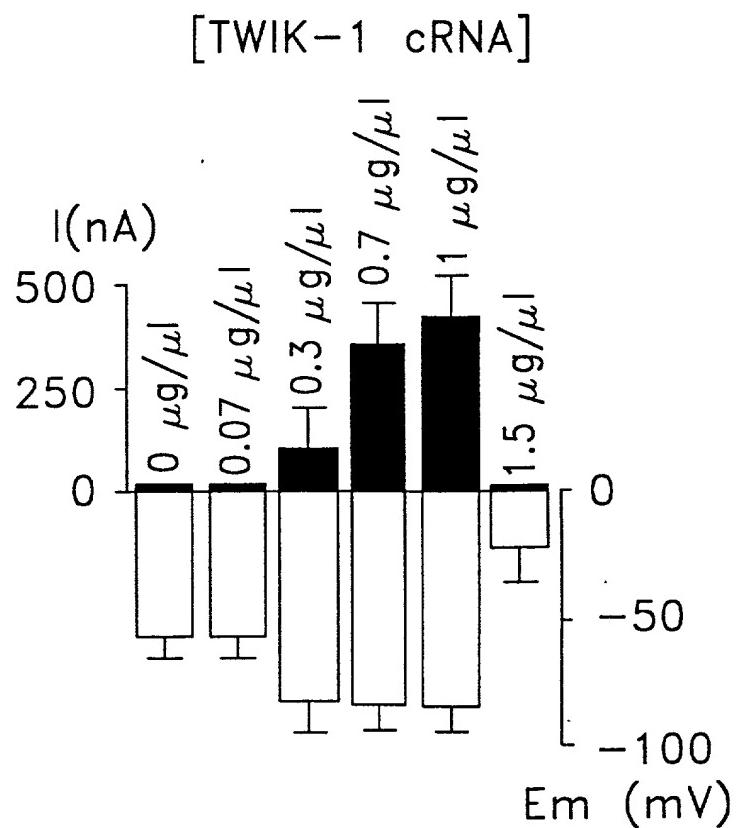


FIG. 4B

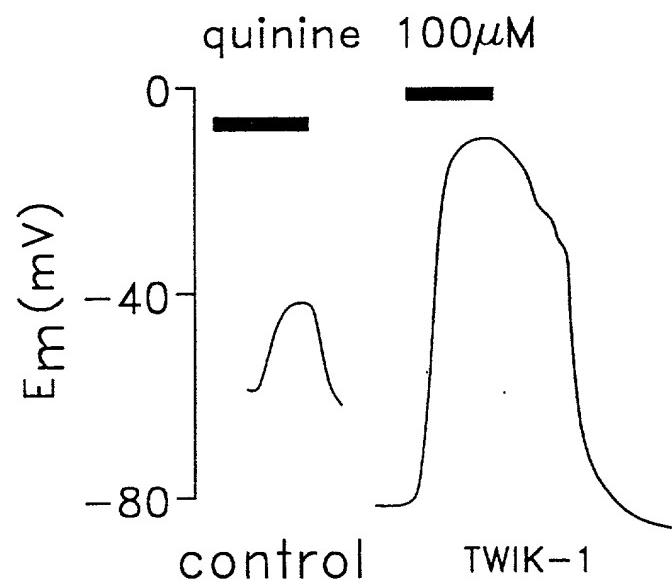
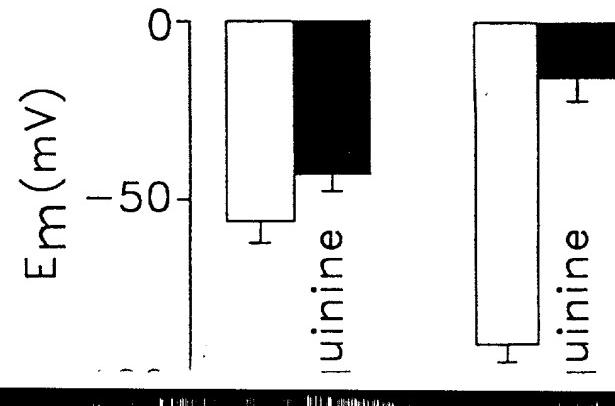
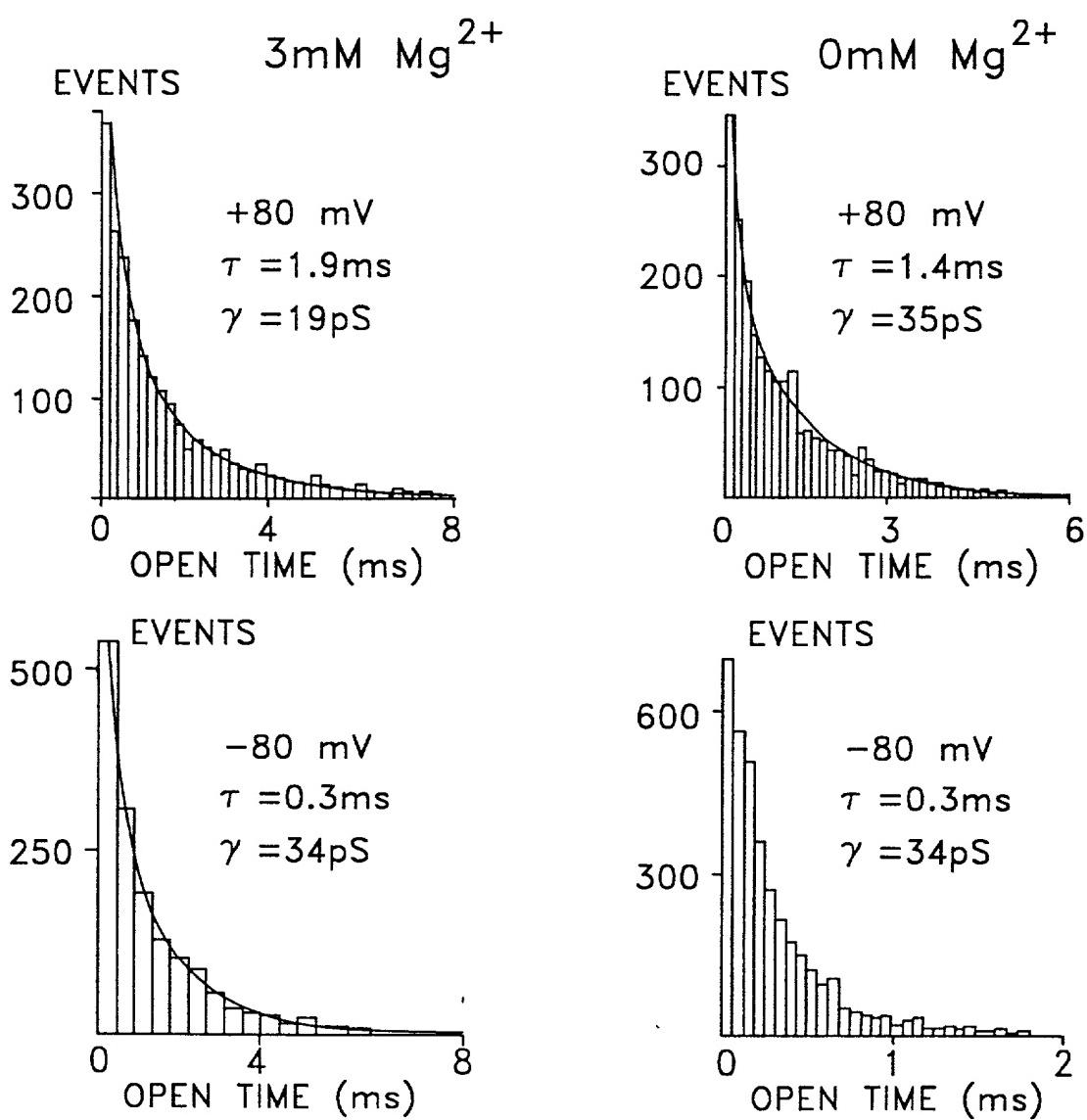
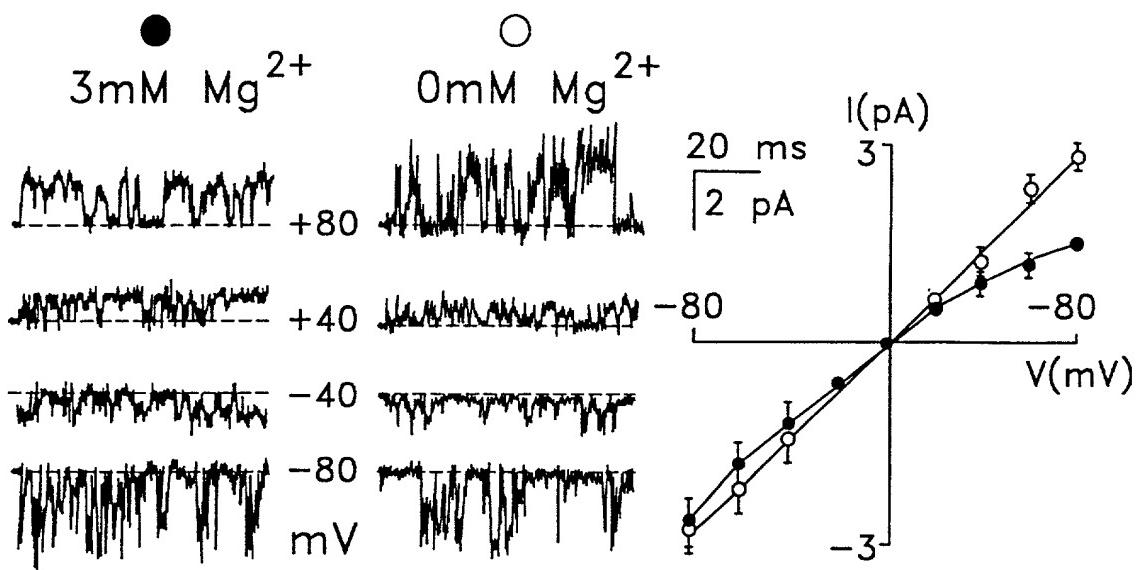


FIG. 4C





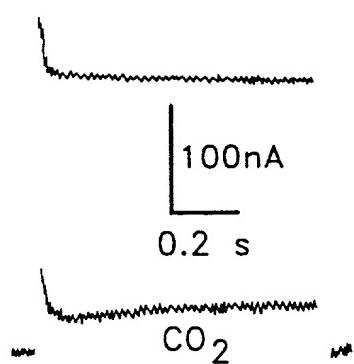


FIG. 6A

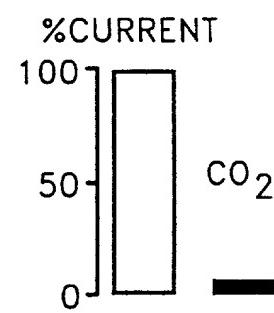


FIG. 6B

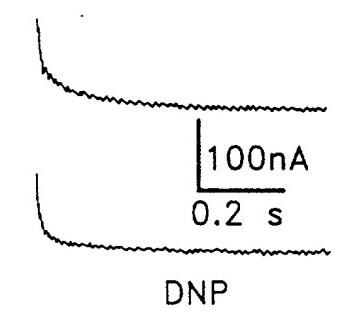


FIG. 6C

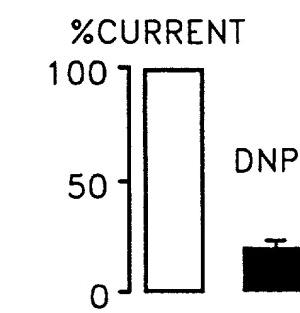


FIG. 6D

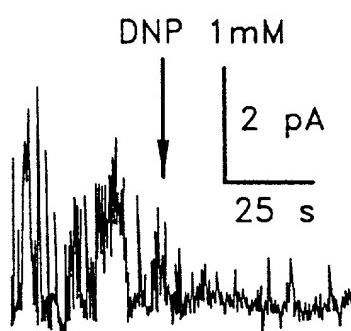


FIG. 6E

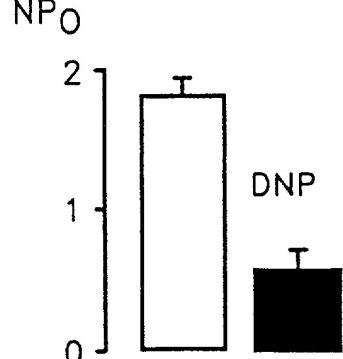


FIG. 6F

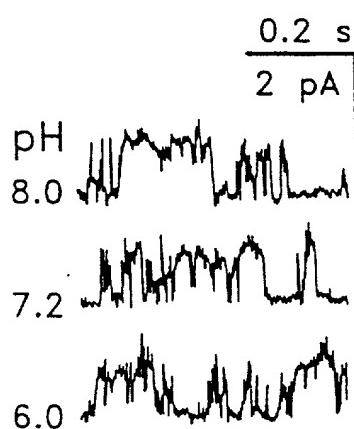


FIG. 6G

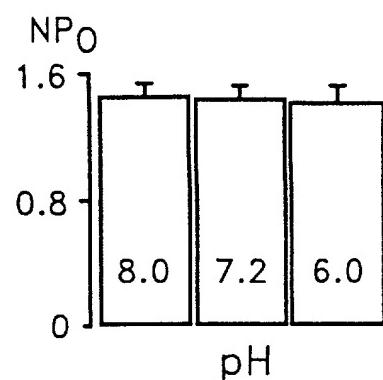


FIG. 6H

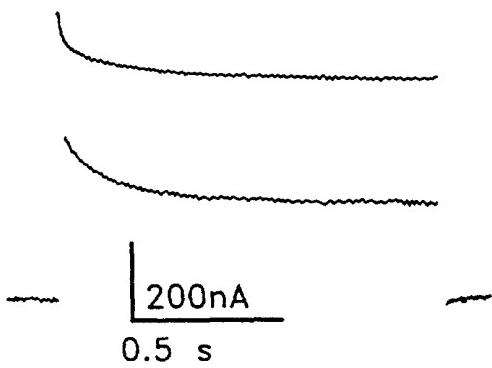


FIG. 7A

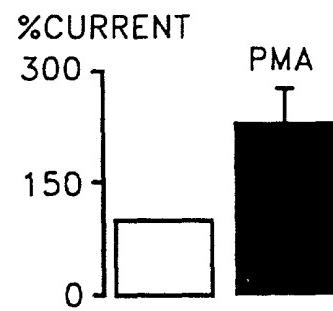


FIG. 7B

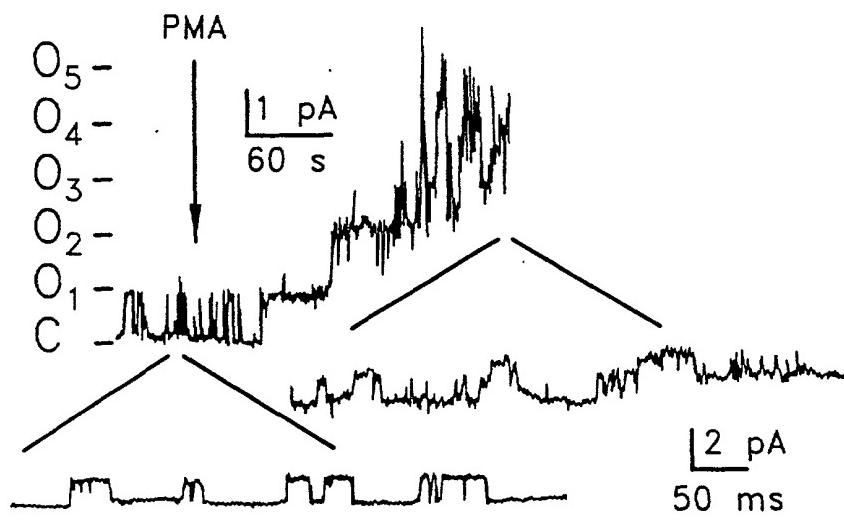


FIG. 7C

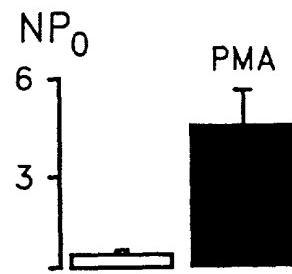


FIG. 7D

tgccctgcgcggatagcggcgagcgcagccatgccccaggccgcctccg -77
 gggcagcagcagcggcggccggggccatgcgcggccggggggccggcggcccgggacg -1

ATG	AAG	CGG	CAG	AAC	GTG	CGC	ACG	CTG	GCG	CTC	ATC	GTG	TGC	ACC	TTC	ACC	TAC	CTG	57
M	K	R	Q	N	V	R	T	L	A	L	I	V	C	T	F	T	Y	L	19
	E	N	V	R	T	L	A	L	I	V	C	T	F	T	Y	L			
CTG	GTG	GGC	GCC	GCG	GTC	TTC	GAC	GCG	CTG	GAG	TCG	GAG	CCC	GAG	CTG	ATC	GAG	CGG	114
L	V	G	A	A	V	F	D	A	L	E	S	E	P	E	L	I	E	R	38
L	V	G	A	A	V	F	D	A	L	E	S	E	P	E	M	I	E	R	
CAG	CGG	CTG	GAG	CTG	CGG	CAG	CAG	GAG	CTG	CGG	GCG	CGC	TAC	AAC	CTC	AGC	CAG	GGC	171
Q	R	L	E	L	R	Q	Q	E	L	R	A	R	Y	N	L	S	Q	G	57
Q	R	L	E	L	R	Q	L	E	L	R	A	R	Y	N	L	S	E	G	
													*						
GGC	TAC	GAG	GAG	CTG	GAG	CGC	GTC	GTG	CTG	CGC	CTC	AAG	CCG	CAC	AAG	GCC	GGC	GTG	228
G	Y	E	E	L	E	R	V	V	L	R	L	K	P	H	K	A	G	V	76
G	Y	E	E	L	E	R	V	V	L	R	L	K	P	H	K	A	G	V	
CAG	TGG	CGC	TTC	GCC	GGC	TCC	TTC	TAC	TTC	GCC	ATC	ACC	GTC	ATC	ACC	ACC	ATC	GGC	285
Q	W	R	F	A	G	S	F	Y	F	A	I	T	V	I	T	T	I	G	95
Q	W	R	F	A	G	S	F	Y	F	A	I	T	V	I	T	T	I	G	
TAC	GGG	CAC	GCG	GCA	CCC	AGC	ACG	GAT	GTC	GGC	AAG	GTG	TTC	TGC	ATG	TTC	TAC	GCG	342
Y	G	H	A	A	P	S	T	D	G	G	K	V	F	C	M	F	Y	A	114
Y	G	H	A	A	P	S	T	D	G	G	K	V	F	C	M	F	Y	A	
CTG	CTG	GGC	ATC	CCG	CTC	ACG	CTC	GTC	ATG	TTC	CAG	AGC	CTG	GGC	GAG	CGC	ATC	AAC	399
L	L	G	I	P	L	T	L	V	M	F	Q	S	L	G	E	R	I	N	133
L	L	G	I	P	L	T	L	I	M	F	Q	S	L	G	E	R	I	N	
ACC	TTG	GTG	AGG	TAC	CTG	CTG	CAC	CGC	GCC	AAG	AAG	GGG	CTG	GGC	ATG	CGG	CGC	GCC	456
T	L	V	R	Y	L	L	H	R	A	K	K	G	L	G	M	R	R	A	152
T	E	V	R	Y	L	L	H	R	A	K	R	G	L	G	M	R	H	A	
GAC	GTG	TCC	ATG	GCC	AAC	ATG	GTG	CTC	ATC	GGC	TTC	TTC	TCG	TGC	ATC	AGC	ACG	CTG	513
D	V	S	M	A	N	M	V	L	I	G	F	F	S	C	I	S	T	L	171
E	V	S	M	A	N	M	V	L	I	G	F	V	S	C	I	S	T	L	
TGC	ATC	GGC	GCC	GCC	TTC	TCC	CAC	TAC	GAG	CAC	TGG	ACC	TTC	TTC	CAG	GCC	TAC	570	
C	I	G	A	A	A	F	S	H	Y	E	H	W	T	F	F	Q	A	Y	190
C	I	G	A	A	A	F	S	Y	Y	E	R	W	T	F	F	Q	A	Y	
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Y	Y	C	F	I	T	L	T	T	I	G	F	G	D	Y	V	A	L	Q	209
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AAG	GAC	CAG	GCC	CTG	CAG	ACG	CAG	CCG	CAG	TAC	GTG	GCC	TTC	AGC	TTC	GTC	TAC	ATC	684
K	D	Q	A	L	Q	T	Q	P	Q	Y	V	A	F	S	F	V	Y	I	228
K	D	Q	A	L	Q	T	Q	P	Q	Y	V	A	F	S	F	V	Y	I	
CTT	ACG	GGC	CTC	ACG	GTC	ATC	GGC	GCC	TTC	CTC	AAC	CTC	GTG	GTG	CTG	CGC	TTC	ATG	741
L	T	G	L	T	V	I	G	A	F	L	N	L	V	V	L	R	F	M	247
L	T	G	L	T	V	I	G	A	F	L	N	L	V	V	L	R	F	M	

FIG. 8A

ACC	ATG	AAC	GCC	GAG	GAC	GAG	AAG	CGC	GAC	GCC	GAG	CAC	CGC	GCG	CTG	CTC	ACG	CGC		798
T	M	N	A	E	D	E	K	R	D	A	E	H	R	A	L	L	T	R		266
T	M	N	A	E	D	E	K	R	D	A	E	H	R	A	L	L	T	H		

AAC	GGG	CAG	GCG	GGC	GGC	GGA	GGG	GGT	GGC	AGC	GCG	CAC	ACT	ACG	GAC	ACC	GCC	855
N	G	Q	A	G	G	G	G	G	G	S	A	H	T	T	D	T	A	285
N	G	O	A	V	G	L	G	G	L	S	C	L	S	G	S	L	G	

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TCA TCC ACG GCG GCA GCG GGC GGC GGC TTC CGC AAC GTC TAC GCG GAG GTG CTG 912
S S T A A G G G G F R N V Y A E V L 304
VRPRDPV TC AA A A G GVGVGVGGS G F R N V Y A E V L

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CAC	TTC	CAG	TCC	ATG	TGC	TCG	TGC	CTG	TGG	TAC	AAG	AGC	CGC	GAG	AAG	CTG	CAG	TAC		969
H	F	Q	S	M	C	S	C	L	W	Y	K	S	R	E	K	L	Q	Y		323
H	F	O	S	M	C	S	C	L	W	V	K	S	R	E	K	L	O	V		

TCC	ATC	CCC	ATG	ATC	ATC	CCG	CGG	GAC	CTC	TCC	ACG	TCC	GAC	ACG	TGC	GTG	GAG	CAG	1026
S	I	P	M	I	I	P	R	D	L	S	T	S	D	T	C	V	E	Q	342
S	I	P	M	I	I	P	R	D	L	S	T	S	D	T	C	V	E	H	

AGC	CAC	TCG	TCG	CCG	GGA	GGG	GGC	GGC	CGC	TAC	AGC	GAC	ACG	CCC	TCG	CGA	CGC	TGC	1083
S	H	S	S	P	G	G	G	R	Y	S	D	T	P	S	R	R	C	361	
S	H	S	S	P	G	G	G	R	Y	S	D	T	P	S	H	P	C		

CTG	TGC	AGC	GGG	GCG	CCA	CGC	TCC	GCC	ATC	AGC	TCG	GTG	TCC	ACG	GGT	CTG	CAC	AGC	1140
L	C	S	G	A	P	R	S	A	I	S	S	V	S	T	G	L	H	S	380
L	C	S	G	T	O	R	S	A	I	S	S	V	S	T	G	L	H	S	

CTG	TCC	ACC	TTC	CGC	GGC	CTC	ATG	AAG	CGC	AGG	AGC	TCC	GTG	TGA	ctgccccggagggacc	1200
L	S	T	F	R	G	L	M	K	R	R	S	S	V	*		395
L	A	A	F	R	G	L	M	K	R	R	S	S	V			

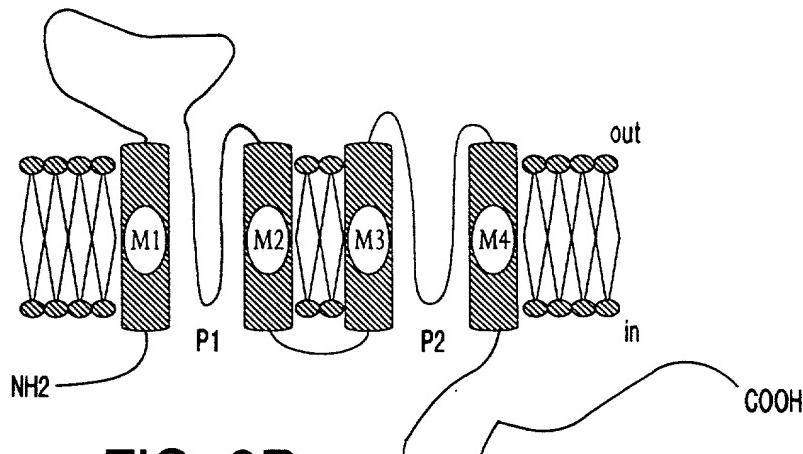
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FIG. 8B

Family of Mammalian Potassium Channels, Their Cloning And Their Use, Especially for The Screening of Drugs

	1	- - - - - M L Q S L A G S S C V R - - - - -	L V E R H R S
	1	M A A P D I L L D P K S A A Q N S K P R L S F S S K P T V L A S R V E S D S A	
	1	- - - - - M K R - - - Q - N V R - - -	
			M1
TWIK-1	20	- - - A W C F G - F L V L G Y L L Y L V F G A V V F S S V E L P Y E D D L L	
TREK-1	39	I N V M K W K T V S T I F L V V V L Y L I I G A A V F K A L E Q P Q E I S Q	
TASK	8	- - - - - T I A L I V C T E T Y L L V G A A V F D A L E S E P E L I E	
TWIK-1	53	R Q E L R K L K R R F L E E H E C L S E Q O L E Q F L G R V L E A S N Y G V	
TREK-1	77	R T T I V I Q K O T F I A Q H A C V N S T E L D E L I Q Q I V A A I N A G I	
TASK	38	R Q R L E R Q Q E L R A R A Y N L S Q G G - Y E E L E R V V L R L K P H K A	
			P1
TWIK-1	91	S V L S N A S G - N W N W D F T S A L F F A S T V L S T T G Y G H T V P L S	
TREK-1	115	I P L G N S S N Q V S H W D L G S S F F F A G T V I T T I G E G N I S P R T	
TASK	75	G - - - - - V Q - W R F A G S F Y F A I T V I T T I G Y G H A A P S T	
			M2
TWIK-1	128	D G G K A F C I I Y S V I G I P E F L L F L T A V V O R I T V H V T R - - - R	
TREK-1	153	E G G K I F C I I Y A L L G I P L E G F I L A G V G D Q L G T I F G K G I A	
TASK	104	D G G K V F C M R Y A L L G I P L T L V M F O S L G E R I N T I V R Y - - -	
			M3
TWIK-1	164	P V L Y F H I R G E S K O V V A I V H A V L L G F V T V S C F F E I P A A	
TREK-1	191	K V E D T F I K W N V S Q T K I R I I S T I T I F L F G C V I E V A L P A V	
TASK	139	L D H R A K K G I G M R R A D V S M A N M V L I G F F S C I S T L C I G A A	
			P2
TWIK-1	202	N F S V I E D D I N F L E S E Y F C F I S L S T I G L G D Y V R G E - G Y N	
TREK-1	229	I F K H I E G - W S A L D A I Y F V I T L T T I G F G D Y V A G - G S D	
TASK	177	A F S H Y E H - W T F F Q A X Y Y C F I T L T T I G F G D Y V A L O K D Q A	
			M4
TWIK-1	239	Q K F R E L Y K I G I T C Y L L L G L I A M L V V L E T F C E L H E L K K F	
TREK-1	264	I E Y L D F Y K P V V W F W I L V G L A Y F A A V L S M I G D W L R V I S K	
TASK	214	L Q T Q P Q Y V A E S F V Y I L T G L T V I G A F L N L V V L R F M T M N A	
TWIK-1	277	R K M F Y V K K D K D - - - - -	
TREK-1	302	K T K E E V G E F R - - - - -	
TASK	252	E D E K R D A E H R A L L T R N G Q A G G G G G G S A H T T D T A S S T A	
TWIK-1	288	- - - - - E D Q V H I I E H D Q L S F S S I T D Q A A G M K - - - - -	
TREK-1	312	- - - - - A H A A E W T A N V T A E F K E T R R R L S V E I - - - - -	
TASK	290	A A G G G G F R N V Y A E V L H F Q S M C S C L W Y K S R E K L Q Y S I P M	
TWIK-1	313	- - - E D Q K Q N E P F V A T Q S S A C V D G P A N H - - - - -	
TREK-1	337	- - - Y D K F Q R A T S V K R K L S A E L A G N H N Q E L T P C M R T C L -	
TASK	328	I I P R D L S T S D T C V E Q S H S S P G G G G R Y S D T P S R R C L C S G	
TWIK-1	337	- - - - -	
TREK-1	371	- - - - -	
TASK	366	A P R S A I S S V S T G L H S L S T F R G L M K B R R S S V	

FIG. 9A



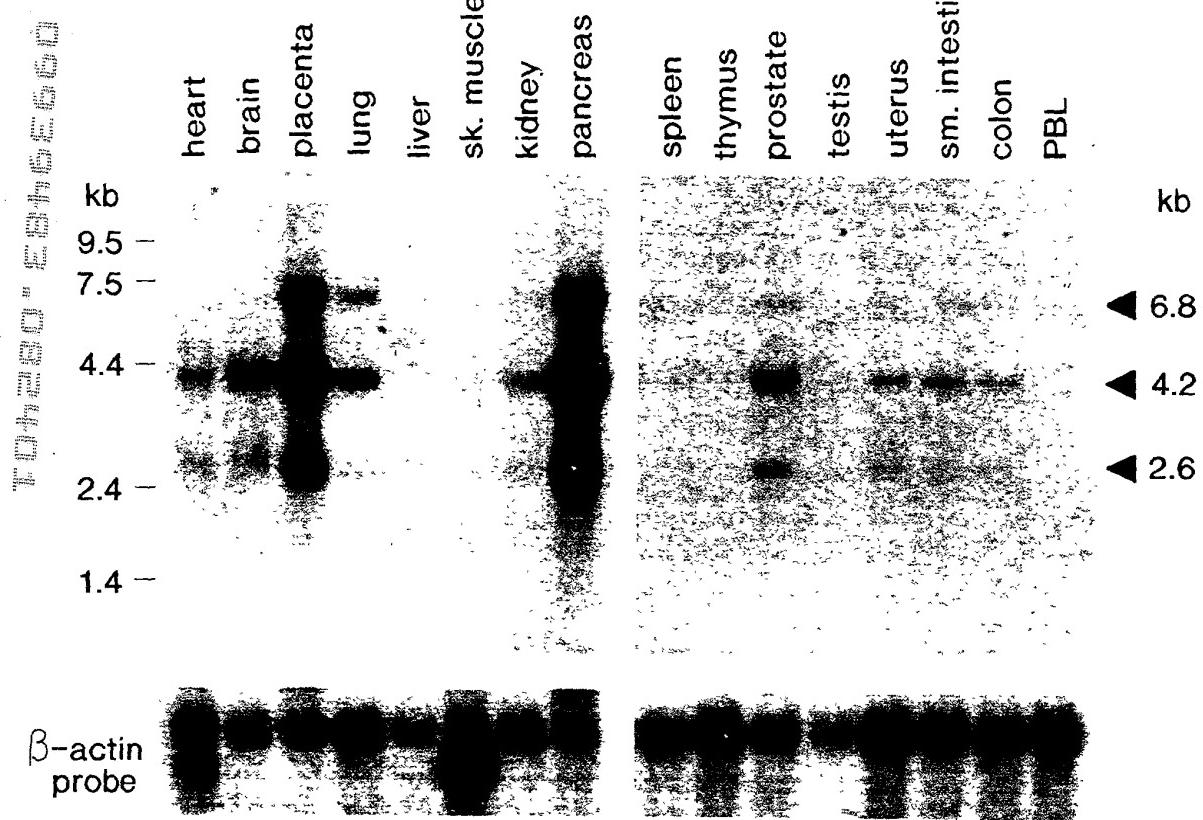


FIG. 10

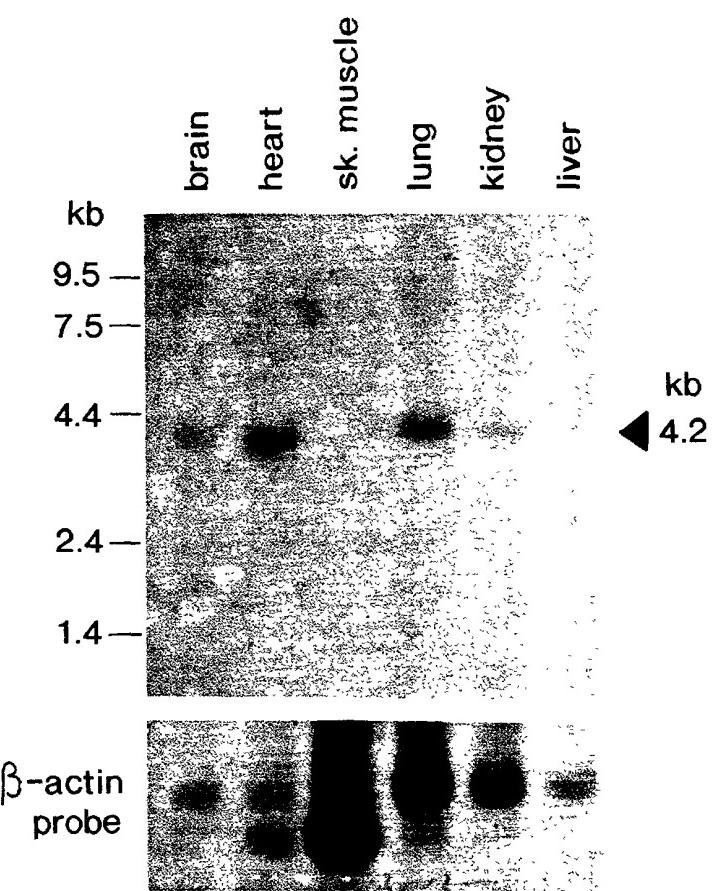


FIG. 11A

FIG. 11B

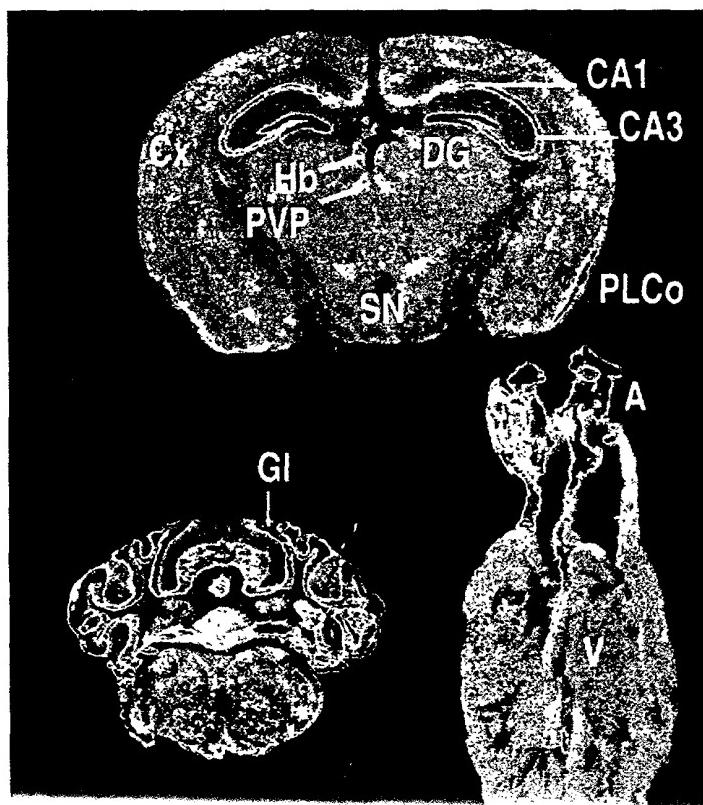


FIG. 11C

FIG. 11D

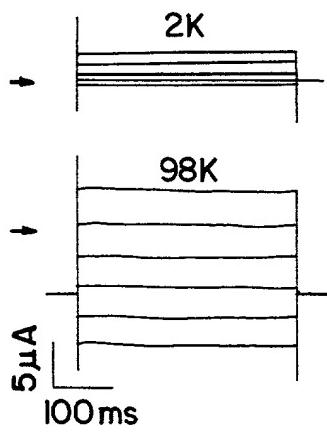


FIG. 12A

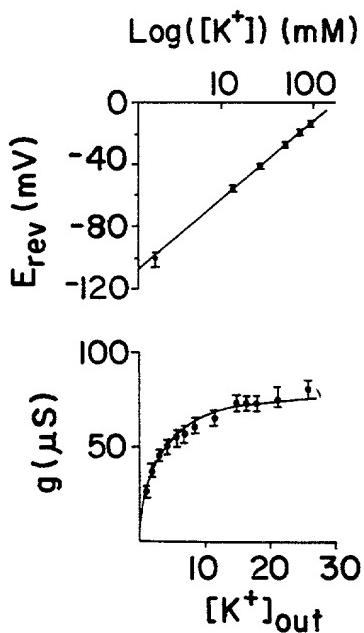


FIG. 12C

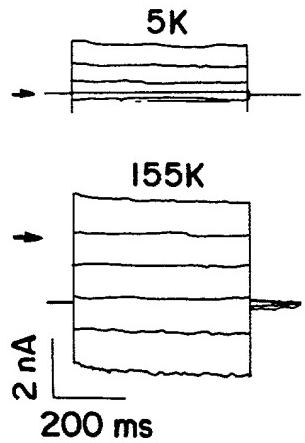


FIG. 12E

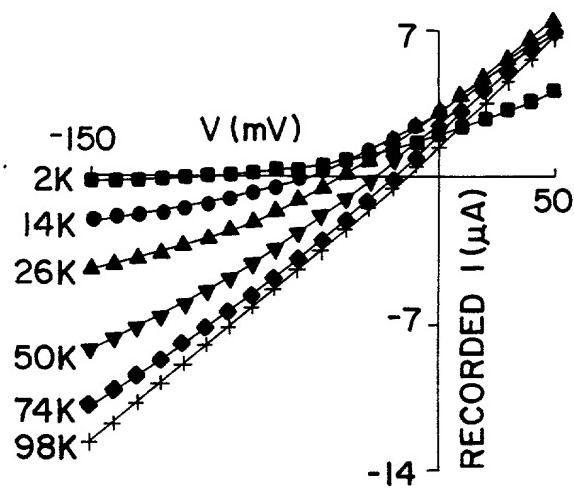


FIG. 12B

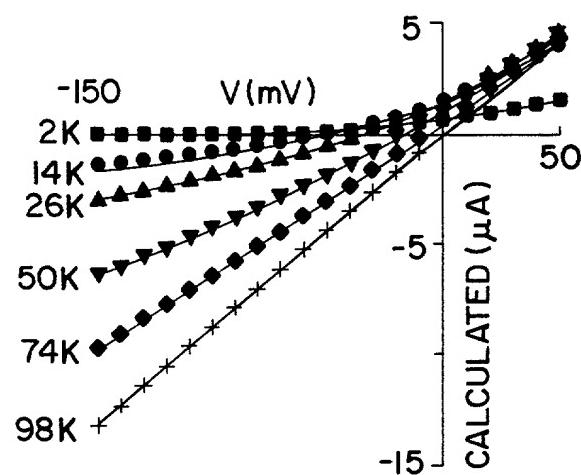


FIG. 12D

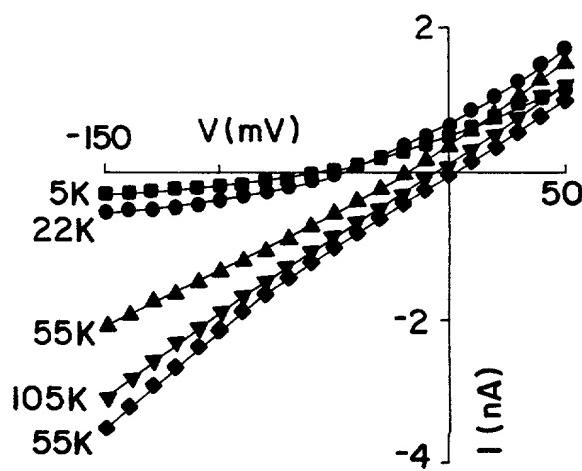


FIG. 12F

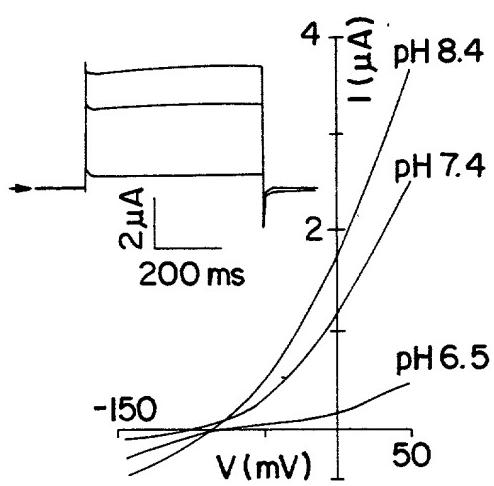


FIG. 13A

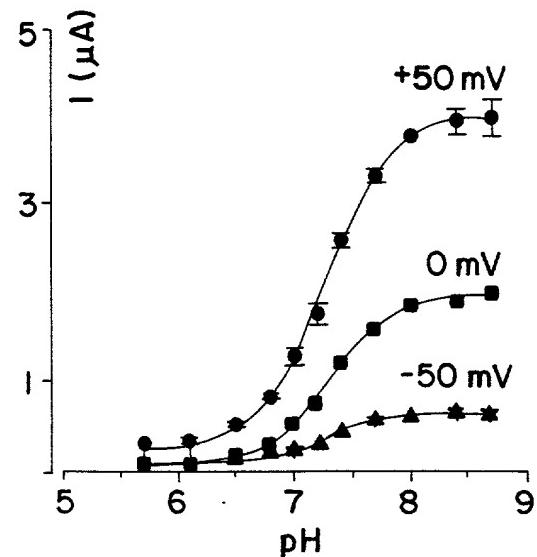


FIG. 13B

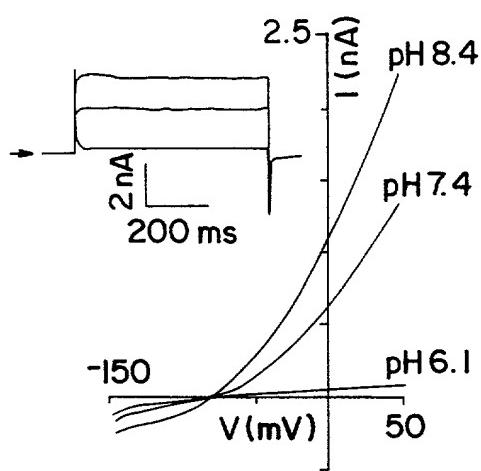


FIG. 13C

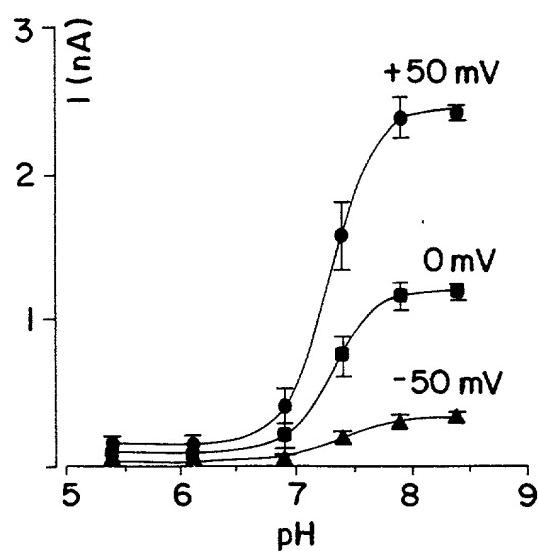


FIG. 13D